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STIC Search Report

EIC 2800

STIC Database Tracking Number: 184281

**TO: Alan Mathews
Location: JEF-9D59
AU 2851
Friday, April 07, 2006
Case Serial Number: 09/320,472**

**From: Jeff Harrison
Location: EIC2800
JEF-4B68
Phone: 571-272-2511
Jeff.harrison@uspto.gov**

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Patent Search - Number: 5,530,518


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370216 (08) 5530518 June 25, 1996

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

5530518

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June 25, 1996

Projection exposure apparatus

REISSUE: Reissue Application filed May 25, 1999 (O.G. Aug. 3, 1999) Ex. Gp.: 2851; Re. S.N. 09/320,472 Reissue Application filed Jun. 24, 1998 (O.G. Oct. 27, 1998) Ex. Gp.: 2852; Re. S.N. 09/103,536, (O.G. August 3, 1999)

INVENTOR: Ushida, Kazuo - Tokyo, Japan (JP); Kameyama, Masaomi - Tokyo, Japan (JP)

APPL-NO: 370216 (08)

FILED-DATE: December 7, 1994

GRANTED-DATE: June 25, 1996

PRIORITY: December 25, 1991 - 3343601, Japan (JP)

ASSIGNEE-AT-ISSUE: Nikon Corporation, Tokyo, Japan (JP), 03

ASSIGNEE-AFTER-ISSUE: March 29, 1996 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., NIKON CORPORATION 2-3, MARANOCHI 3- CHOME, CHIYODA-KU TOKYO 100 JAPAN, Reel and Frame Number: 07868/0559

LEGAL-REP: Shapiro and Shapiro

PUB-TYPE: June 25, 1996 - Utility Patent having no previously published pre-grant publication (A)

PUB-COUNTRY: United States (US)

REL-DATA:

Continuation of Ser. No. 08/274369, July 13, 1994, ABANDONED

Continuation of Ser. No. 07/991421, December 16, 1992, ABANDONED

Continuation-in-part of Ser. No. 08/166153, December 14, 1993, ABANDONED

US-MAIN-CL: 355#53

US-ADDL-CL: 355#67, 355#71

Signal: ⓘ Citation information available
Trail: Unrestricted

Patents 5530518

SHEPARD'S SUMMARY ♦ Hide Summary

Unrestricted *Shepard's* Summary

No subsequent appellate history.

Citing References:

ⓘ Citing Decisions: **Citing decisions with no analysis assigned (2)**

PRIOR HISTORY (0 citing references) ♦ Hide Prior History

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Patents 5530518, Patents 5530518 ⓘ

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Signal: ⓘ Citation information available
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PN -  US5530518 A 19960625 [US5530518]

TI - (A) Projection exposure apparatus

PA - (A) NIPPON KOGAKU KK (JP)

PA0 - Nikon Corporation, Tokyo [JP]

IN - (A) USHIDA KAZUO (JP); KAMEYAMA MASAOMI (JP)

AP - US37021694 19941207 [1994US-0370216]

FD - Cont. of US274369 19940713 [1994US-0274369] (Abandoned)
C.I.P. of US166153 19931214 [1993US-0166153] (Abandoned)
Cont. of US991421 19921216 [1992US-0991421] (Abandoned)

PR - US37021694 19941207 [1994US-0370216]
JP34360191 19911225 [1991JP-0343601]
US27436994 19940713 [1994US-0274369]
US16615393 19931214 [1993US-0166153]
US99142192 19921216 [1992US-0991421]

IC - (A) G03F-007/20 H01L-021/027

EC - G03F-007/20T14
G03F-007/20T16

PCL - ORIGINAL (O) : 355053000; CROSS-REFERENCE (X) : 355067000 355071000


DT - Basic

CT - US4668077; US4704027; US4831276; US4931830; US4933754; US5160962; US5208629; US5253040; US5329333;
US5367404; JP61-91662; JP2-166717; JP5-175100

STG - (A) United States patent

AB - A projection exposure apparatus includes illuminating optical means for illuminating a projection negative, and projection optical means for projection-exposing the projection negative illuminated by the illuminating optical means onto a substrate, the illuminating optical means including light source means for supplying exposure light, annular light source forming means for forming an annular secondary light source by the light from the light source means, and condenser means for condensing the light beam from the annular light source forming means on the projection negative, and is designed to satisfy the following condition: $1/3 \leq d1/d2 \leq 2/3$, where d1 is the inner diameter of the annular secondary light source, and d2 is the outer diameter of the annular secondary light source.

1 / 1 LGST - ©EPO

PN -  US5530518 A 19960625 [US5530518]

AP - US37021694 19941207 [1994US-0370216]

ACT - 19960329 US/AS02-A
ASSIGNMENT OF ASSIGNOR'S INTEREST
OWNER: NIKON CORPORATION 2-3, MARANOUCI 3-CHOME, CHIYODA; EFFECTIVE DATE: 19960321

19960329 US/AS02-A
ASSIGNMENT OF ASSIGNOR'S INTEREST
OWNER: USHIDA, KAZUO; EFFECTIVE DATE: 19960321

19960329 US/AS02-A
ASSIGNMENT OF ASSIGNOR'S INTEREST
OWNER: KAMEYAMA, MASAOMI; EFFECTIVE DATE: 19960321


19981027 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 19980624

19990803 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 19990525

UP - 2003-22

1 / 1 CRXX - ©CLAIMS/RRX

AN - 2733475

PN -  5,530,518 A 19960625 [US5530518]

PA - Nikon Corp JP


PT - E (Electrical)
ACT - 19980624 REISSUE REQUESTED
Issue Date of O.G.: 19981027
Reissue Request Number: 09/103536
Examination Group responsible for Reissue process: 2852

19990525 REISSUE REQUESTED
Issue Date of O.G.: 19990803
Reissue Request Number: 09/320472
Examination Group responsible for Reissue process: 2851

UP - 1999-00
UACT - 1999-08-03

Search statement 3

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Terms: **patno=5576801** ([Edit Search](#) | [Suggest Terms for My Search](#))

480863 (08) 5576801 November 19, 1996

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

5576801

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November 19, 1996

Projection exposure apparatus

INVENTOR: Ushida, Kazuo, Tokyo, JP; Kameyama, Masaomi, Tokyo, JP

APPL-NO: 480863 (08)

FILED-DATE: June 7, 1995

GRANTED-DATE: November 19, 1996

PRIORITY: December 25, 1991 - 3-343601, Japan (JP)

ASSIGNEE-AT-ISSUE: Nikon Corporation, Tokyo, JP

LEGAL-REP: Shapiro and Shapiro

PUB-TYPE: November 19, 1996 - Utility Patent having no previously published pre-grant publication (A)

PUB-COUNTRY: United States (US)

REL-DATA:

Addition of Ser. No. 370216, December 7, 1994

Addition of Ser. No. 274369, July 13, 1994

Addition of Ser. No. 166153, December 14, 1993

Addition of Ser. No. 991421, December 16, 1992

US-MAIN-CL: 355#53

US-ADDL-CL: 355#67

CL: 355

SEARCH-FLD: 355#43, 355#53, 355#71, 355#67

IPC-MAIN-CL: G 03B027#42

IPC-ADDL-CL: G 03B027#54

PRIM-EXMR: Grimley, Arthur T.

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Patent Search - Number: 5,576,801

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PN -  US5576801 A 19961119 [US5576801]

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PA - (A) NIPPON KOGAKU KK (JP)

PA0 - Nikon Corporation, Tokyo [JP]

IN - (A) USHIDA KAZUO (JP); KAMEYAMA MASAOMI (JP)

AP - US48086395 19950607 [1995US-0480863]

FD - Cont. of US370216 19941207 [1994US-0370216]
Cont. of US274369 19940713 [1994US-0274369] (Abandoned)
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Cont. of US991421 19921216 [1992US-0991421] (Abandoned)

PR - US48086395 19950607 [1995US-0480863]
JP34360191 19911225 [1991JP-0343601]
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US27436994 19940713 [1994US-0274369]
US16615393 19931214 [1993US-0166153]
US99142192 19921216 [1992US-0991421]

IC - (A) G03B-027/42 G03B-027/54

EC - G03F-007/20T14
G03F-007/20T16

PCL - ORIGINAL (O) : 355053000; CROSS-REFERENCE (X) : 355067000

DT - Basic

CT - US5367404

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<u>or</u>	or
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<u>not w/N</u>	not within N words
<u>pre /N</u>	precedes by N words
<u>w/p</u>	in same paragraph
<u>not w/p</u>	not in same paragraph
<u>w/seg</u>	in same segment
<u>not w/seg</u>	not in same segment
<u>w/s</u>	in same sentence
<u>not w/s</u>	not in same sentence
<u>and not</u>	and not

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Syntax	Definition
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or	or
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not w/N	not within N words
pre /N	precedes by N words
w/p	in same paragraph
not w/p	not in same paragraph
w/seg	in same segment
not w/seg	not in same segment
w/s	in same sentence
not w/s	not in same sentence
and not	and not

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and not	and not

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US5530518/PN Results : 3

PATENT FAMILY

#	Patent No.	Kind	Date	Applic.No.	Date
<u>1)</u>	JP05175101	A	19930713	1991JP-0343601	19911225
	JP3336438	B2	20021021		
<u>2)</u>	US5530518	A	19960625	1994US-0370216	19941207
<u>3)</u>	US5576801	A	19961119	1995US-0480863	19950607
Priority :					
	1991JP-0343601		19911225		
	1992US-0991421		19921216		
	1993US-0166153		19931214		
	1994US-0274369		19940713		
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FAN - 20042771629686

PN - JP5175101 A 19930713 [JP05175101]
 STG: Doc. Laid open to publ. Inspec.
 AP : 1991JP-0343601 19911225
 JP3336438 B2 20021021 [JP3336438]
 STG: Grant. Pat. With A from 2500000 on

TI - PROJECTING EXPOSURE DEVICE

PA - NIPPON KOGAKU KK

PA0 - (A) NIKON CORP

IN - USHIDA KAZUO; KAMEYAMA MASAOMI

PR - 1991JP-0343601 19911225

IC - G03B-027/32
 G03F-007/20
 H01L-021/027
 H01L-021/30

EC - G03F-007/20T14

UP - 2000-08



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FAN - 20042771629688

PN - US5530518 A 19960625 [US5530518]
 STG: United States patent
 AP : 1994US-0370216 19941207
 FD : Cont. of US274369 19940713 [1994US-0274369] (Abandoned)
 FD : C.I.P. of US166153 19931214 [1993US-0166153] (Abandoned)
 FD : Cont. of US991421 19921216 [1992US-0991421] (Abandoned)

TI - Projection exposure apparatus

PA - NIPPON KOGAKU KK


PA0 - Nikon Corporation, Tokyo [JP]

IN - USHIDA KAZUO; KAMEYAMA MASAOMI

PR - 1991JP-0343601 19911225; 1992US-0991421 19921216; 1993US-0166153 19931214; 1994US-0274369 19940713
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PCL - ORIGINAL (O) : 355053000; CROSS-REFERENCE (X) : 355067000 355071000
UP - 2000-08

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ACT - 19960329 US/AS02-A
ASSIGNMENT OF ASSIGNOR'S INTEREST
OWNER: NIKON CORPORATION 2-3, MARANOUCI 3-CHOME, CHIYODA; EFFECTIVE DATE: 19960321

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OWNER: USHIDA, KAZUO; EFFECTIVE DATE: 19960321

19960329 US/AS02-A
ASSIGNMENT OF ASSIGNOR'S INTEREST
OWNER: KAMEYAMA, MASAOMI; EFFECTIVE DATE: 19960321


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EFFECTIVE DATE: 19980624

19990803 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 19990525

UP - 2003-22



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FAN - 20042771629687
PN -  US5576801 A 19961119 [US5576801]
STG: United States patent
AP : 1995US-0480863 19950607
FD : Cont. of US370216 19941207 [1994US-0370216]
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IN - USHIDA KAZUO; KAMEYAMA MASAOMI
PR - 1991JP-0343601 19911225; 1992US-0991421 19921216; 1993US-0166153 19931214; 1994US-0274369 19940713
1994US-0370216 19941207; 1995US-0480863 19950607

IC - G03B-027/42
G03B-027/54
EC - G03F-007/20T14
G03F-007/20T16
PCL - ORIGINAL (O) : 355053000; CROSS-REFERENCE (X) : 355067000
UP - 2000-08

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